Declaration and Power of Attorney For Utility or Design Patent Application English Language Declaration

| As a below named inventor, I here | by declare that: | | | | | | |
|--|---|--|-------------------------------|---------------------------|--|--|--|
| My residence, post office address and citizenship are as stated below next to my name. | | | | | | | |
| I believe I am the original, first and inventor (if plural names are listed sought on the invention entitled | sole inventor (if only obelow) of the subject | one name is listed below) or matter which is claimed and | an original, I for which a | first and joint patent is | | | |
| Multi-Dimensional Orthogonal R | esource Hopping Mult | iplexing Communications N | lethod and A | Apparatus | | | |
| the specification of which is atta | ched hereto unless the | following box is checked: | | | | | |
| was filed on | | | | as | | | |
| United States Application Number and was amended on PCT International Application Name and was amended on | er | | (if appli | cable) or, | | | |
| PCT International Application N | Tumber | | | | | | |
| and was amended on | | | (if appli | cable) | | | |
| Thereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. | | | | | | | |
| Lacknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, ∍1.56. | | | | | | | |
| thereby claim foreign priority benefits under Title 35, United States Code ⇒119 (a-d) or ⇒365(b) of any foreign application(s) for patent or inventor's certificate, or ⇒365(a) of any PCT international application which designated at least one country other than the United States of America, listed below. I have also identified below, by checking the ANo≅ box, any foreign application for patent or inventors certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed: | | | | | | | |
| | | | Priority C | laimed | | | |
| 2000-29400 K | Country) Corea Country) | (Day/Month/Year Filed) 30/05/2000 (Day/Month/Year Filed) | \mathbf{X} | No No | | | |
| (Number) (C | 'ountry) | (Doy/Month/Voor Eiled) | 3 7 | 3. T | | | |
| Additional foreign application numbers are listed on a supplemental priority sheet attached hereto. I hereby claim the benefit under Title 35, United States Code >119(e) of any United States provisional application(s) listed below. | | | | | | | |
| (Number) | (Day/Month/Year F | iled) | | | | | |
| (Number) | (Day/Month/Year F | iled) | | | | | |
| (Number) | (Day/Month/Year F | iled) | | | | | |
| Additional provisional application numbers are listed on a supplemental priority sheet attached hereto. | | | | | | | |

I hereby claim the benefit under Title 35, United States Code >120 of any United States application(s), or ⇒365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code ⇒112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations >1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(Application No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

(Application No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

Additional U.S. or international application numbers are listed on a supplemental priority sheet attached

hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge hat willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from either his foreign patent agent or corporate representative, if any, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney or agent named herein will be so notified by the undersigned.

EOWER OF ATTORNEY: As a named inventor, I hereby appoint the attorney(s) and/or agent(s) associated with the Customer Number provided below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number:

CUSTOMER NUMBER 7055

The appointed attorneys include:

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Full name of sole or first inventor SUNG, Dan-Keun

Inventor signature

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Date March 16, 2002

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Citizenship

Korea

(Supply similar information and signature for second and subsequent joint inventors.)

| Full name of second joint inventor, if any PARK, Su Won | | |
|--|----|------------------------|
| Second Inventor signature 7 4 3 | | Date March 18, 2002 |
| Address | | |
| #373-1, Kusong-Dong, Yusong-Gu, Taejon, 305-701, Republic of Korea 🔀 | RX | |
| Citizenship | | |
| Korea | | |

DARCHO!

NonProfit Organization

VERIFIED STATEMENT (DECLARATION) BY A NONPROFIT ORGANIZATION CLAIMING SMALL ENTITY STATUS UNDER 37 CFR 1.9(f) AND 1.27(d)

| Applicant or Patentee: SUNG, DAN-KEUN / PARK, SU-WON | Docket #: | |
|--|--|----------------|
| Serial or Patent Number: | Group Art Unit: | |
| Filed or Issued: | Examiner: | |
| Title: MULTI-DIMENSIONAL ORTHOGONAL RESOURCE HOPPING METHOD AND APPARATUS | | S, |
| hereby declare that I am an official empowered to act on behalf of the nonprofit of tame of Organization: KOREA ADVANCED INSTITUTE OF SCIENCE address: #373-1, KUSONG-DONG, YUSONG-GU, TAEJON, 305-7 **Type of Organization** **University or other institution of higher education.** Tax exempt under Internal Revenue Service code (26 USC 501(a) and 50.) Nonprofit scientific or educational under statute of state of the United State Name of State: Statute: Would qualify as tax exempt under Internal Revenue Service code (26 US States of America. Would qualify as nonprofit scientific or educational under statute of state of United States of America. Name of State: hereby declare that the nonprofit organization identified above qualifies as a nonprurposes of paying reduced fees under section 41(a) or (b) of Tule 35, United States. The specification filed herewith with the title selicited above. | AND TECHNOLOGY 701, REPUBLICK OF KOREA D1(c)(3)). ties of America. SC 501(a) and 501(c)(3)) if located in the United States of America if located in Statute: | i the |
| ☐ The specification filed herewith, with the title as listed above. ☐ The patent application identified above. ☐ The PCT international patent application identified above. ☐ The patent number identified above, hereby declare that rights under contract or law have been conveyed to and remain to the identified invention. | n with the nonprofit organization with regard | i to th |
| f the rights held by the above identified nonprofit organization concern are not excit aving rights to the invention must file separate verified statements averring to their exention are held by any person, other than the inventor, who could not qualify as not person made the invention, or by any concern which would not qualify as a smoonprofit organization under 37 CFR 1.9(e). Each person, concern or organization. No such person, concern or organization. Each such person, concern or organization as listed below: | status as small entities and that no rights to an independent inventor under 37 CFR 1.96 | the (c) if |
| ADDRESS: | ☐ Individual ☐ Small Business Conce ☐ NonProfit Organization | ern on |
| Full Name: | | |
| ADORESS: | ☐ Individual ☐ Small Business Conce ☐ NonProfit Organizatio | |
| | | |
| See attached sheet for additional person(s) concerns acknowledge the duty to file, in this application or patent, notification of any change the status prior to paying, or at the time of paying, the earliest of the issue fee or atus as a small entity is no longer appropriate (37 CFR 1.28(b)). Thereby declare that all statements made herein of my own knowledge are true and the believed to be true; and further that these statements were made with the knowledge are punishable by fine, or imprisonment, or both, under section 1001 of Tule like statements may jeopardize the validity of the application, any patent issuing the directed. | ge in status resulting in loss of entitlement to any maintenance fee due after the date on that all statements made on information and edge that willful false statements and the like | which belie |
| Vame and Title in Organization KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY | MARCH 20, 2002 | |
| #373-1, KUSONG-DONG, YUSONG-GU, TAEJON, 305-701, REPUBLICK OF KOREA | 01 0) 3/ | - |

NonProft Organization

VERIFIED STATEMENT (DECLARATION) BY A NONPROFIT ORGANIZATION CLAIMING SMALL ENTITY STATUS LINDER 37 CFR 1 0(E) AND 1 27(E)

| - | CEANWARD SWALL ENTITY STATUS UNDER 37 CFR 1.9(F) AND 1.27(d) | | | | | | | | |
|---|---|--|---|---|--|--|--|--|--|
| | | SUNG, DAN-KEUN / PARI | K, SU-WON Docket #: | | | | | | |
| | Serial or Patent Numi | xer: | Group Art U | nit: | | | | | |
| | Filed or Issued: | | Examiner: | | | | | | |
| | 11 | Tide: MULTI-DIMENSIONAL ORTHOGONAL RESOURCE HOPPING MULTIPLEXING COMMUNICATIONS METHOD AND APPARATUS | | | | | | | |
| I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below: | | | | | | | | | |
| | Name of Organization: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE Address: #161, GAJONG-DONG, YUSONG-GU, DAEJON, 305-350, REPUBLIC OF KOREA | | | | | | | | |
| | Type of Organization | | | | | | | | |
| | | ☑ University or other institution of higher education. | | | | | | | |
| | ☐ Tax exempt u | ider Internal Revenue Service code | (26 USC 501(a) and 501(c)(3)). | | | | | | |
| | Nonprofit scientific or educational under statute of state of the United States of America. Name of State: Statute: | | | | | | | | |
| | Would qualify as tax exempt under Internal Revenue Service code (26 USC 501(a) and 501(c)(3)) if located in the United States of America. | | | | | | | | |
| | Would qualify as nonprofit scientific or educational under statute of state of the United States of America if located in t United States of America. Name of State: Statute: | | | | | | | | |
| | I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under section 41(a) or (b) of Title 35, United States Code with regard to the matter described in: \[\textstyle \text{The specification filed herewith, with the title as listed above.} \] | | | | | | | | |
| | - The specificati | oil med herewith, with the title as in | sted above. | | | | | | |
| | | national patent application identified | ah awa | | | | | | |
| int. | ☐ The patent nur | nber identified above. | acove. | | | | | | |
| | | nts under contract or law have been | conveyed to and remain with the nonp | rofit organization with regard to the | | | | | |
| i integ | | | | | | | | | |
| | | | on concern are not exclusive, each ind | | | | | | |
| M | invention are held by an hat person made the inv | person, other than the inventor, wi | anches averting to their status as small to could not qualify as an independent ould not qualify as a small business co | inventor under 37 CFR 1.9(c) if | | | | | |
| ise I | | (c). Lucii pcisoii, (| concern or organization having any rig | ncern under 37 CFR 1.9(d) or a htts in the invention is listed below: | | | | | |
| II. | ☐ No such person | i, concern or organization. | | | | | | | |
| I | Each such pers | on, concern or organization as listed | i below: | | | | | | |
| | TOLD TOURS | | | | | | | | |
| | ADDRESS: | | | ☐ Individual☐ Small Business Concern☐ | | | | | |
| | | | | ☐ NonProfit Organization | | | | | |
| Į | | | | | | | | | |
| . [| FULL NAME: | | | | | | | | |
| | . ' | | | ☐ Individual | | | | | |
| | ADDRESS: | | | ☐ Small Business Concern | | | | | |
| | | | | ☐ NonProfit Organization | | | | | |
| Ŀ | | C See attached short Sec. 1100 | | | | | | | |
| 1 | solonomiados the dure t | See attached sheet for additi | onal person(s) concern(s) or organizat | ion(s). | | | | | |
| | I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)). | | | | | | | | |
| I | hereby declare that all s | tatements made herein of my own b | nowledge on this and that all areas | ate made on information and haliaf | | | | | |
| | | | | | | | | | |
| fa | use statements may jeop | | r section 1001 of Tule 18 of the Unite, any patent issuing thereon, or any pa | | | | | | |
| ī | | | | | | | | | |
| | Name and Title in Organizatio | ELECTRONICS AND ATIONS RESEARCH INSTIT | Date | | | | | | |
| ŀ | | ATIONS RESEARCH INSTIT | UTE MARCH 20 | D, 2002 | | | | | |
| | Address #161 CATONIC D | ONIC MICONIC CT | Signature | | | | | | |
| | 305-350, REPUE | ONG, YUSONG-GU, DAEJON LIC OF KORFA | 1 1. KII m | ١. | | | | | |
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